NON-CONSECUTIVE TRANSITIONAL MECHANISM FOR SEEK OPERATIONS WHEN TRANSITIONING FROM A SEEK CONTROL TO A TRACK FOLLOWING CONTROL

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Abstract of the Disclosure

A method and apparatus for improving the settle time and thus, the transition from seek control to track following control in a disc drive system are provided. With the apparatus and method, two counters are

10 provided – a consecutive counter and a non-consecutive counter. The consecutive counter counts consecutive samples that meet threshold requirements. The non-consecutive counter counts non-consecutive groups of consecutive samples that meet threshold requirements. When the consecutive counter reaches a first predetermined value, the non-

15 consecutive counter is incremented and the consecutive counter is reset to zero. When the non-consecutive counter reaches a second predetermined value, a track following control mechanism is initiated to thereby transition from a seek control operation to a transitional control operation and finally a track following control operation.